

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
49167 C1

JCE46 U.S. PTO
09/924366
08/07/01

In Re Application Of: **J. Skouv**

Serial No.
not yet assigned

Filing Date
Herewith

Examiner
not yet assigned

Group Art Unit
not yet assigned

Title: **ONE STEP SAMPLE PREPARATION AND DETECTION OF NUCLEIC ACIDS IN COMPLEX BIOLOGICAL SAMPLES**

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
49167 C1

In Re Application Of: J. Skouv

Serial No.
not yet assigned

Filing Date
Herewith

Examiner
not yet assigned

Group Art Unit
not yet assigned

Title: ONE STEP SAMPLE PREPARATION AND DETECTION OF NUCLEIC ACIDS IN COMPLEX BIOLOGICAL SAMPLES

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 04-1105 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. _____)

on _____
(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited on _____ with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Correspondence

*This certificate may only be used if paying by deposit account.

Signature

Dated: August 7, 2001

Peter F. Corless (Reg. No. 33,860)
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, MA 02209

CC:

| FORM PTO-1449 | | | DOCKET NO.: 49167 C1 | | SERIAL NO.: not yet assigned | | |
|---|----|--|-----------------------------|-------------------|------------------------------|----------|----------------------------|
| INFORMATION DISCLOSURE STATEMENT | | | APPLICANT(S): J. Skouv | | FILING DATE: Herewith | | |
| | | | GROUP NO.: not yet assigned | | | | |
| UNITED STATES PATENT DOCUMENTS | | | | | | | |
| EXAM. INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | AA | 6,077,673 | 6/2000 | Zhang et al. | 435 | 6 | |
| | AB | 5,942,392 | 6/2000 | Zhang et al. | 435 | 6 | |
| | AC | 5,821,060 | 10/13/98 | Arlinghaus et al. | 435 | 6 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES/NO |
| | BA | EP 0538194 B1 | 04/21099 | EPO | | | Yes |
| | BB | WO98/39352 | 09/11/98 | WIPO | | | Yes |
| | BC | WO98/22489 | 05/28/98 | WIPO | | | Yes |
| | BD | WO99/14226 | 03/25/99 | WIPO | | | Yes |
| | BE | WO 92/20703 | 11/26/92 | PCT | | | Yes |
| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | | | | | | |
| | CA | Tarkoy et al., <i>Helv. Chim. Acta</i> , 76:481 (1993). | | | | | |
| | CB | Tarkoy et al., <i>Angew. Chem., Int. Ed. Engl.</i> , 32:1432 (1993). | | | | | |
| | CC | Egli et al., <i>J. Am. Chem. Soc.</i> , 115:5855 (1993). | | | | | |
| | CD | Tarkoy et al., <i>Helv. Chim. Acta</i> , 77:716 (1994). | | | | | |
| | CE | Bolli et al., <i>Angew. Chem., Int. Ed. Engl.</i> , 34:694 (1995). | | | | | |
| | CF | Bolli et al., <i>Helv. Chim. Acta</i> , 78:2077 (1995). | | | | | |
| | CG | Litten et al., <i>Bioorg. Med. Chem. Lett.</i> , 5:1231 (1995). | | | | | |
| | CH | Litten et al., <i>Helv. Chim. Acta</i> , 79:1129 (1996). | | | | | |
| | CI | Bolli et al., <i>Chem. Biol.</i> , 3:197 (1996). | | | | | |
| | CJ | Bolli et al., <i>Nucleic Acids. Res.</i> , 24:4660 (1996). | | | | | |
| | CK | K.H. Altmann et al., <i>Tetrahedron Lett.</i> , 35::2331 (1994). | | | | | |
| | CL | K. H. Altmann et al., <i>Tetrahedron Lett.</i> , 35:7625 (1994). | | | | | |

10846 U.S. PTO
09/924366
08/07/01

| | | | |
|---|-----|---|------------------------------|
| FORM PTO-1449 | | DOCKET NO.: 49167 C1 | SERIAL NO.: not yet assigned |
| INFORMATION DISCLOSURE STATEMENT | | APPLICANT(S): J. Skouv | |
| | | FILING DATE: Herewith | GROUP NO.: not yet assigned |
| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | | |
| | CM | Marquez et al., <i>J. Med. Chem.</i> , 39:3739 (1996). | |
| | CN | Ezzitouni et al., <i>J. Chem. Soc., Perkin Trans.</i> , 1:1073 (1997). | |
| | CO | Jones et al., <i>J. Am. Chem. Soc.</i> , 115:9816 (1993). | |
| | CP | Wang et al., <i>Bioorg. Med. Chem. Lett.</i> , 7: 229 (1997). | |
| | CQ | Yannopoulos et al., <i>Synlett</i> , 378 (1997). | |
| | CR | CHIMA, 36 th IUPAC Congress, organized by the Swiss Chemical Society. Poster No. SB-B4: Steffens, R. and Leumann Ch. Tricyclo-DNA: synthesis, enzymatic stability, and pairing properties. | |
| | CS | Nielsen, Master Thesis (Odense University, Denmark), page 67-71 (1995). | |
| | CT | Youssefeyeh et al., <i>J. Org. Chem.</i> , 44:1301 (1979). | |
| | CW | Jones et al., <i>J. Org. Chem.</i> , 44:1309 (1979). | |
| | CX | Yang et al., <i>Tetrahedron Lett.</i> , 33:37 (1992). | |
| | CY | Thrane et al., <i>Tetrahedron</i> , 51:10389 (1995). | |
| | CZ | Nielsen et al., <i>Bioorg. Med. Chem.</i> , 3:1493 (1995). | |
| | CAA | Freier et al., <i>Nucleic Acid Research</i> , 25:4429-4443 (1997). | |
| | CBA | Haly et al., <i>SYNLETT</i> , 687-689 (1996). | |
| | CCA | Zou et al., <i>Tetrahedron Lett.</i> , 37:941-944 (1996). | |
| | CDA | Herdewijn., <i>Liebigs Ann.</i> , 1337-1348 (1996). | |
| | CEA | Obika et al., <i>Tetrahedron Lett.</i> , 39:5401-5404 (1998). | |
| | CFA | Obika et al., <i>Tetrahedron Lett.</i> , 38:8735-8738 (1997). | |
| | CGA | 7 th Antisense Symposium, November 21-22, 1997. Poster No. 32 and 33: Obika, D.N.; Morio, K. and Imanishi, T. Synthesis and properties of oligonucleotides containing novel bicyclic nucleosides with a fixed N-form sugar pucker. | |
| | CHA | CHIMA, 36 th IUPAC Congress, organized by the Swiss Chemical Society. Poster No. SB-B12: Egtger, A. and Leumann Ch. Designe, synthesis and properties of bicyclo [3.2.1]-amio nucleic acids. | |
| | CIA | CHIMA, 36 th IUPAC Congress, organized by the Swiss Chemical Society. Poster No. SB-B5: Epple, C. Ch., Pompizi, I. and Leumann Ch. Bicyclo [3.2.1]-DNA: an oligonucleotide analogue with a conformationally preorganized Phosphodiester backbone and a flexible sugar-base linkage. | |
| | CJA | 06-10 September 1998: 13 th International Round Table – Nucleoside, Nucleotides and their Biological Applications, Montpellier: Oral Communication 1: Wang, G. and Gunic, E. "Conformationally Locked Nucleoside Analogs. Synthesis of 2'-Deoxy-2'-C, 4'-C-Bridged Bicyclic Nucleoside". | |
| | CKA | 06-10 September 1998: 13 th International Round Table – Nucleoside, Nucleotides and their Biological Applications, Montpellier: Poster No. 288: Meldgaard, M. et al., "LNA (Locked Nucleic Acids): Synthesis and Thermal Denaturation Studies". | |
| | CLA | 06-10 September 1998: 13 th International Round Table – Nucleoside, Nucleotides and their Biological Applications, Montpellier: Poster No. 287 and Proceeding: Koshkin, A. A. et al., "Locked Nucleic Acids as synthetic RNA Mimics for Effective Complementary Recognition." | |

| | | | |
|--|-----|---|------------------------------|
| FORM PTO-1449 | | DOCKET NO.: 49167 C1 | SERIAL NO.: not yet assigned |
| INFORMATION DISCLOSURE STATEMENT | | APPLICANT(S): J. Skouv | |
| | | FILING DATE: Herewith | GROUP NO.: not yet assigned |
| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | | |
| | CMA | 06-10 September 1998: 13 th International Round Table – Nucleoside, Nucleotides and their Biological Applications, Montpeillier: Poster No. 67: Nielsen, P. and Wengel, J. "A New Convergent Synthetic Approach Towards α - and β -LNA (Locked Nucleic Acids)". | |
| | CNA | 8 October 1998: Antisense 98, Targeting the Molecular Basis of Disease: Poster No. 24: Havsteen, M. et al., "LNA (Locked Nucleic Acids): A new Class of High Affinity Nucleic Acids With Prime Potential as Antisense and Antigene Agents". | |
| | COA | 21 January 1998: National Seminar on Perspectives in Interfacial Areas of Chemistry and Biology, Delhi University: Wengel, J. "LNA (Locked Nucleic Acids): Synthesis and High Affinity Nucleic Acid Recognition – Stop the Twisting." | |
| | CPA | 27 Marts 1998: Workshop of Young European Bioorganic Chemists, Munchen: Wengel, J. "LNA (Locked Nucleic Acids): Synthesis and High Affinity Nucleic Acid Recognition – Stop the Twisting." | |
| | CQA | 20 August 1998: Årsmødet for Center for Medicinsk Biotechnologi, KVL: Wengel, J. "LNA (Locked Nucleic Acids)"ations, Montpeillier: Oral Communication 1: Wang, G. and Gunic, E. "Conformationally Locked Nucleoside Analogs. Synthesis of 2'-Deoxy-2'-C, 4'-C-Bridged Bicyclic Nucleoside". | |
| | CRA | 07 September 1998: 13 th International Round Table – Nucleoside, Nucleotides and their Biological Applications, Montpeillier: Oral Communication 2: Wengel, J. "LNA (locked Nucleic Acids)". | |
| | CSA | 08 September 1998: Meeting in Lund, Sweden: Jakobsen, M. H. "LNA (Locked Nucleic Acids): A new Class of High Affinity Nucleic Acids With Prime Potential as Antisense and Antigene Agents". | |
| | CTA | Nielsen et al., <i>J. Chem. Soc., Perkin Trans.</i> , 1:3423-3433 (1997). | |
| | CUA | Nielsen et al., <i>Chem. Commun.</i> , 9:825-826 (1997). | |
| | CVA | Singh et al., <i>Chem. Commun.</i> , 455-456 (1998). | |
| | CWA | Koshkin et al., <i>Tetrahedron</i> , 54:3607-3630 (1998). | |
| | CXA | Koshkin et al., <i>Tetrahedron Lett.</i> , 39:4381-4384 (1998). | |
| | CYA | Singh et al., <i>Chem. Commun.</i> , 1237-1248 (1998). | |
| | CZA | Singh et al., <i>J. Org. Chem.</i> , 63:6078-6079 (1998). | |
| | CAB | Christensen et al., <i>J. Am. Chem. Soc.</i> , 120:5458-5463 (1998). | |
| | CAC | Koshkin et al., <i>J. Org. Chem.</i> , 63:2778-2781 (1998). | |
| | CAD | Kumar et al., <i>Bioorg. Med. Chem. Lett.</i> , 8:2219-2222 (1998). | |
| | CAE | Wengel et al., <i>Acc. Chem. Res.</i> , 32:301-310 (1999). | |
| | CAF | Koshkin et al., <i>J. Am. Chem. Soc.</i> , 120:13252-13253 (1998). | |
| | CAG | Singh et al., <i>J. Org. Chem.</i> , 10035-10039 (1998). | |
| | CAH | Nielsen et al., <i>Chem. Commun.</i> , 2645-2646 (1998). | |
| | CAI | Wengel et al., <i>Nucleosides Nucleotides</i> , 18:1365-1370 (1999). | |
| | CAJ | Nielsen et al., <i>Nucleosides Nucleotides</i> , 18:701-702 (1999). | |
| | CAK | Kærno et al., <i>Chem. Commun.</i> , 657-658 (1999). | |

| | | | |
|--|-----|---|------------------------------|
| FORM PTO-1449 | | DOCKET NO.: 49167 C1 | SERIAL NO.: not yet assigned |
| INFORMATION DISCLOSURE STATEMENT | | APPLICANT(S): J. Skouv | |
| | | FILING DATE: Herewith | GROUP NO.: not yet assigned |
| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | | |
| | CAL | Rajwanshi et al., <i>J. Chem. Soc., Perkin Trans.</i> , 1:1407-1414 (1999). | |
| | CAM | Raunkjær et al., <i>J. Chem. Soc., Perkin Trans.</i> , 1:2543-2551 (1999). | |
| | CAN | Rajwanshi et al., <i>Chem. Commun.</i> , 1395-1396 (1999). | |
| | CAO | Pfundheller et al., <i>Nucleosides Nucleotides</i> , 18:2017-2030 (1999). | |
| | CAP | Rajwanshi et al., <i>Chem. Commun.</i> , 2073-2074 (1999). | |
| | CAQ | Nielsen et al., <i>J. Biomol. Struct. Dyn.</i> , 17:175-191 (1999). | |
| | CAR | Nielsen et al., <i>Bioconjugate Chem.</i> , 11:228-238 (2000). | |
| | CAS | Rajwanshi et al., <i>Angewandte Chemie</i> , 39:1656-1659 (2000). | |
| | CAT | Minasov et al., <i>Biochemistry</i> , 39:3525 (2000). | |
| | CAU | Wahlestedt et al., <i>Proc. Natl. Acad. Sci. USA</i> , 97:5633-5638 (2000). | |
| | CAV | Obika et al., <i>Tetrahedron Lett.</i> , 40:6465-6468 (1999). | |
| | CAW | Obika et al., <i>Tetrahedron Lett.</i> , 41:215-219 (1999). | |
| | CAX | Obika et al., <i>J. Chem. Soc., Chem. Commun.</i> , 2423-2424 (1999). | |
| | CAY | Wang et al., <i>Bioorg. Med. Chem. Lett.</i> , 9:1147-1150 (1999). | |
| | CAZ | Obika et al., <i>Tetrahedron Lett.</i> , 41:221-224 (1999). | |
| | CBB | Obika et al., <i>Bioorg. Med. Chem. Lett.</i> , 9:515-518 (1999). | |
| | CBC | Obika et al., <i>Tetrahedron Lett.</i> , 39:5401-5405 (1998). | |
| | CBD | Imanishi et al., <i>J. Synth. Org. Chem.</i> , 57:959-980 (1999). | |
| | CBE | Chemical Abstracts, Vol. 70, No. 1, Abstract No. 3737B (1969). | |
| | CBF | <i>Monatsch. Chem.</i> , 99(5):2111-2120 (1968). | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Examiner: | | Date: | |